



Marathwada Accelerator for Growth and Incubation Council

FOR

**ELECTRICAL MAINTENANCE, REPAIR, REWIRING AND
UPGRADATION OF WORKSHOP AREA**

At

MAGIC Incubation Centre, Government ITI, Jalna, Maharashtra

Tender Reference No.: MAGIC/ITI-JALNA/ELECTRICAL/2026-27/[T5]

Date of Issue: 16/09/2026

Last Date of Submission: 25/09/2026 UP TO 3:00PM

Date & Time of Opening: [25/09/2026 AT 3:30 PM]

Completion Period: 45 Calendar Days from the date of Work Order

Issued by

Marathwada Accelerator for Growth and Incubation Council (MAGIC)

MAGIC Incubation Centre, Government ITI, Jalna, Maharashtra



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PART I — NOTICE INVITING TENDER

1.0 Notice Inviting Tender

Sealed bids are invited from eligible, experienced and technically competent electrical contractors/agencies for undertaking the Electrical Maintenance, Repair, Rewiring and Upgradation of the Workshop Area at MAGIC Incubation Centre, Government ITI, Jalna, Maharashtra.

The work shall broadly comprise inspection, repair and upgradation of the existing electrical installation suitable for an approximate **35 kW electrical load**, including repair/replacement of main switches, electrical cabling, distribution arrangements, bus-bar arrangements, reuse of serviceable existing cables, installation of new cables wherever required, installation of overhead cable trays at approximately 10 feet above floor level, vertical cable drops/ducts at individual machine locations, repair and replacement of switchboards, installation of LED lights and fans, electrical safety arrangements, testing, commissioning and all incidental works required for complete and safe operation of the Workshop.

The work shall be executed strictly in accordance with the approved technical specifications, BOQ, applicable Indian Standards, electrical safety requirements, site conditions and instructions issued by MAGIC.

1.1 Tender Details

Particular	Details
Name of Work	Electrical Maintenance, Repair, Rewiring and Upgradation of Workshop Area
Location	MAGIC Incubation Centre, Government ITI, Jalna, Maharashtra
Tender Reference	MAGIC/ITI-JALNA/ELECTRICAL/2026-27/[T5]
Approximate Electrical Load	35 kW
Completion Period	45 Calendar Days from date of Work Order
Defect Liability Period	12 Months from date of completion
Bid Validity	90 Days from last date of submission
Last Date of Submission	25/09/2026 Up to 3:00 PM
Date & Time of Opening	25/09/2026 AT 3:30 PM
Site Inspection	Mandatory before submission of bid
Contact Person	Mr. D.M. Rathod, General Manager, MAGIC



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PART II — INSTRUCTIONS TO BIDDERS

2.1 Site Inspection

The bidder shall inspect the Workshop and existing electrical installation before submission of the tender.

The bidder shall satisfy itself regarding:

1. Existing electrical wiring and cabling
2. Existing main electrical panel
3. Existing main switches and protective devices
4. Existing bus-bars and bus-bar chamber
5. Existing cables and their physical condition
6. Cables which are suitable for reuse
7. Existing cable routes
8. Existing machine locations and electrical connection points
9. Requirement of new cables
10. Requirement of cable trays
11. Requirement of vertical cable drops
12. Existing lighting and fan points
13. Existing switchboards
14. Requirement of LED lights and fans
15. Earthing and electrical safety arrangements
16. Accessibility for installation and maintenance
17. Availability of power shutdown during work
18. Existing conduits, cable routes and supports
19. Working height and scaffolding/access arrangements
20. Storage and movement of electrical materials

The bidder shall take actual measurements and assess the quantity and condition of the existing electrical installation.

No claim arising out of failure to inspect the site or assess the existing installation shall ordinarily be entertained after award of work.

2.2 Special Requirement — Reuse of Existing Serviceable Cables

The contractor shall not replace all existing cables automatically.

Existing cables which are found to be **electrically and physically serviceable** shall be retained and reused

wherever technically feasible .



The contractor shall inspect and test the existing cables for:

- Insulation resistance
- Continuity
- Physical damage
- Overheating/burning marks
- Terminal condition
- Insulation condition
- Current carrying suitability
- Cable size and suitability for intended load

Only cables certified as suitable by the contractor and accepted by MAGIC shall be reused.

Any existing cable found unsafe, damaged, undersized, overheated or otherwise unsuitable shall be replaced with new cable of appropriate size and specification.

2.3 Electrical Load

The electrical distribution system shall be designed and maintained considering an approximate **35 kW workshop load**, subject to actual site requirements and connected load.

The contractor shall ensure proper load distribution and shall avoid overloading of any circuit, cable, switch, bus-bar, panel or protective device.

2.4 Documents to be Submitted

The bidder shall submit:

1. Covering Letter
2. Firm/Company Registration Certificate
3. PAN Card
4. GST Registration Certificate
5. Valid Electrical Contractor License/Registration
6. Experience Certificates/Work Orders
7. Completion Certificates, wherever available
8. Details of similar electrical works executed
9. Bank Details/Cancelled Cheque
10. Contact Details
11. No-Blacklisting Declaration
12. Acceptance of Tender Terms and Conditions
13. Technical Compliance Statement
14. Site Inspection Certificate
15. Signed and stamped BOQ
16. List of proposed makes/brands

17. Details of technical manpower
18. Any other document specifically requested by MAGIC

2.5 Tender Evaluation

MAGIC may evaluate bids based on:

1. Eligibility compliance
2. Electrical contractor license/competency
3. Relevant experience
4. Technical capability
5. Technical compliance
6. Completeness of documents
7. Quality of proposed materials
8. Reasonableness of rates
9. Overall quoted price
10. Ability to complete the work within the stipulated period
11. Electrical safety and workmanship capability

MAGIC reserves the right to accept or reject any or all bids in accordance with applicable rules/policies.

2.6 Taxes

The bidder shall clearly indicate whether GST is included or excluded in the quoted rates.

All applicable statutory deductions including TDS shall be made as per prevailing law.



PART III — ELIGIBILITY & QUALIFICATION CRITERIA

3.1 Constitution

The bidder shall be a:

- Proprietorship
- Partnership
- LLP
- Private/Public Limited Company; or
- Registered Electrical Contractor/Firm/Agency

3.2 Electrical Contractor License

The bidder shall possess a valid electrical contractor license/registration or such authorisation as may be required under applicable laws and regulations.

Where required, the work shall be executed under the supervision of a competent/licensed electrical supervisor.

3.3 Experience

The bidder should have successfully completed at least **two similar electrical works during the two years**, involving one or more of the following:

- Industrial/workshop electrical wiring
- Electrical maintenance
- Rewiring
- Electrical panel work
- Cable laying
- Bus-bar work
- Industrial lighting
- Machine electrical connections
- Cable tray installation
- Electrical distribution system
- Electrical repair and upgradation

OR

One similar electrical work of value of at least **₹15 Lakhs**.

3.4 Financial Capacity

The bidder shall have adequate financial, technical and manpower capacity to complete the work within the stipulated period.

3.5 No Blacklisting

The bidder shall submit a declaration confirming that the firm/company has not been blacklisted or debarred by any Central Government, State Government, PSU, local authority or reputed institution as on the date of submission.



PART IV — SCOPE OF ELECTRICAL WORK

The work shall broadly comprise the following components:

A. Existing Electrical Installation Inspection

The contractor shall inspect the complete existing electrical installation and prepare an assessment of:

- Existing wiring
- Existing cables
- Main switches
- Distribution boards
- Bus-bars
- Machine connections
- Lighting circuits
- Fan circuits
- Switchboards
- Earthing
- Cable routes
- Cable trays/supports

B. Main Electrical Supply and Distribution

The contractor shall undertake repair/upgradation of the main electrical distribution system suitable for approximately **35 kW load**, including:

- Main incoming cable
- Main switch
- MCCB/MCB/isolator as applicable
- Distribution arrangement
- Panel connections
- Cable termination
- Cable glands
- Lugs
- Ferrules
- Proper identification
- Tightening of all terminals
- Replacement of damaged components

C. Bus-Bar Repair and Upgradation

The existing bus-bar arrangement shall be inspected and repaired wherever required.

The work shall include:

- Inspection of bus-bars
- Cleaning
- Tightening of joints
- Replacement of damaged insulators
- Replacement of damaged hardware
- Correction of loose connections
- Replacement of damaged bus-bar sections wherever necessary
- Proper phase identification
- Insulation and safety arrangements
- Proper enclosure and protection

All bus-bar work shall be carried out only after complete isolation of the electrical supply.

D. Cable Maintenance and New Cabling

The contractor shall:

1. Inspect all existing cables
2. Identify serviceable cables
3. Reuse good cables wherever technically suitable
4. Remove damaged/unsafe cables
5. Provide new cables wherever required
6. Provide proper cable sizing based on load
7. Provide cable glands and lugs
8. Provide proper cable termination
9. Provide cable identification/ferrules
10. Ensure proper phase/neutral/earth identification
11. Test all cables after installation

E. Overhead Cable Tray / Cable Support Arrangement

A dedicated overhead cable routing system shall be provided inside the Workshop.

The main cable tray/support route shall generally be installed at approximately 10 Feet Above Finished Floor Level.

The final height and route shall be determined at site by MAGIC considering:

- Machine movement
- Worker safety
- Available headroom
- Existing structural members

- Maintenance accessibility

The cable tray shall be suitably supported using:

- MS/GI support structures
- Brackets
- Clamps
- Threaded rods/appropriate supports
- Anchor fasteners
- Necessary accessories

The tray shall be adequately strong and shall be capable of carrying the proposed electrical cables without sagging or deformation.

F. Vertical Cable Drop Arrangement for Machines

At each identified machine location, a suitable **vertical cable drop/support strip/vertical cable duct arrangement** shall be provided from the overhead cable tray down to the machine switch/connection point.

The arrangement shall:

- Provide safe and neat cable routing
- Protect cables from mechanical damage
- Avoid loose hanging cables
- Facilitate future maintenance
- Facilitate addition/replacement of cables
- Provide proper termination near each machine

The vertical drop shall be securely fixed to the wall/structure and shall be suitably protected.

G. Machine Electrical Connection Points

At each identified machine location, the contractor shall provide/repair:

- Machine switch
- Isolator
- Cable termination
- Cable gland
- Cable lugs
- Earthing connection
- Identification labels
- Vertical cable drop
- Protective arrangement

Machine switches shall be suitably rated for the respective machine load.

H. LED Lighting

The contractor shall repair existing lighting circuits and provide new LED lights at identified locations.

The work shall include:

- LED light fixtures
- Mounting accessories
- Wiring
- Switches
- Connectors
- Junction boxes
- Necessary supports
- Testing and commissioning

LED lights shall be of suitable wattage and approved/reputed make.

I. Fan Installation

The contractor shall provide/install fans at identified locations.

The work shall include:

- Fan
- Mounting arrangement
- Fan regulator where applicable
- Switch
- Wiring
- Connectors
- Necessary accessories
- Testing and commissioning

All fan installation shall be properly secured and electrically earthed.

J. Switch Board Repair/Replacement

Existing workshop switchboards for LED lights and fans shall be inspected.

Damaged, burnt, broken or unsafe switchboards shall be repaired or replaced.

The work shall include, as required:

- Modular switches
- Sockets
- Fan regulators
- Plates
- Boxes
- Connectors
- Internal wiring

- MCB/DB where required
- Proper termination

K. Earthing and Electrical Safety

The contractor shall inspect the existing earthing arrangement and rectify deficiencies wherever identified.

The work shall include, as applicable:

- Earth continuity
- Earth connections
- Earthing conductor
- Machine earthing
- Panel earthing
- Cable tray earthing/bonding
- Proper termination
- Testing

No electrical installation shall be handed over without satisfactory safety testing.

L. Testing and Commissioning

After completion, the contractor shall conduct appropriate tests including:

- Insulation resistance test
- Continuity test
- Polarity test
- Earth continuity test
- Earth resistance test, wherever applicable
- Phase sequence test
- Voltage measurement
- Load current measurement
- Functional testing of switches
- Testing of LED lights and fans
- Testing of machine connection points
- Testing of protective devices

The contractor shall submit a testing/commissioning report before final handover.



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PART V — DETAILED TECHNICAL SPECIFICATIONS

5.1 General Electrical Requirements

All electrical works shall be executed using good engineering practices and suitable materials conforming to applicable Indian Standards and electrical safety requirements.

All materials shall be:

- New
- Unused
- ISI Marked wherever applicable
- Of approved quality
- Suitable for the intended load
- From approved/reputed manufacturers
- Free from manufacturing defects

5.2 Cables

Cables shall be of suitable voltage grade and current carrying capacity.

Cable size shall be selected based on:

- Connected load
- Current carrying capacity
- Voltage drop
- Installation method
- Ambient conditions
- Future operational requirements

All cable ends shall be properly terminated using suitable lugs and glands.

Loose joints, twisted joints or unsafe temporary connections shall not be permitted.

5.3 Existing Cable Reuse

Serviceable existing cables may be reused subject to satisfactory testing and approval.

The contractor shall ensure that reused cables:

- Are not mechanically damaged
- Have adequate insulation
- Have adequate current carrying capacity
- Are appropriately sized
- Have acceptable insulation resistance
- Are suitable for the intended circuit

5.4 Main Switches

Main switches/isolators/MCCBs shall be suitably rated for the electrical load and system configuration.

The equipment shall be of approved reputed make.

All terminals shall be properly tightened and identified.

5.5 Bus-Bar

Bus-bars shall be suitably rated for the connected load.

Bus-bar joints shall be:

- Mechanically tight
- Electrically sound
- Properly insulated
- Protected against accidental contact

Damaged bus-bars, supports, insulators or connecting hardware shall be replaced.

5.6 Cable Tray

Cable trays shall be of suitable size, thickness and strength.

Cable trays shall be properly supported at suitable intervals.

The tray system shall include:

- Bends
- Tees
- Reducers
- Couplers
- Supports
- Clamps
- Fasteners
- Vertical drops
- Covers where required

Power cables shall be arranged neatly and shall not be excessively crowded.

5.7 Vertical Cable Drop

Vertical cable drops shall be provided at identified machine locations.

The vertical support shall be adequately secured and shall protect the cable from physical damage.

Adequate provision shall be made for future cable maintenance and replacement.

5.8 LED Lights

LED lights shall be energy efficient and suitable for industrial/workshop use.

The fixtures shall have:

- Suitable housing
- Proper mounting
- Suitable driver
- Adequate illumination
- Safe electrical connections

5.9 Fans

Fans shall be of suitable size and capacity for the Workshop.

The contractor shall ensure:

- Firm mechanical fixing
- Safe electrical connection
- Proper earthing
- Proper switch/regulator
- Vibration-free operation

5.10 Switchboards

Switchboards shall be of suitable quality and shall include approved switches, sockets, regulators and accessories as applicable.

Damaged switchboards shall not be retained merely by repair if they are unsafe.

5.11 Earthing

All electrical equipment, panels, cable trays and machines requiring earthing shall be properly earthed.

The contractor shall ensure continuity of the protective earth conductor throughout the installation.

5.12 Electrical Safety

The contractor shall strictly follow electrical safety practices.

Before carrying out electrical work:

- Supply shall be isolated
- Proper lockout/tagout or equivalent safe isolation practice shall be followed
- Voltage absence shall be verified
- Suitable PPE shall be used

No live electrical work shall be carried out except where specifically authorised and legally permissible.



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PART VI — BILL OF QUANTITIES & PRICE BID

The bidder shall quote rates in Indian Rupees. Rates shall include all material, labour, transportation, tools, tackles, installation, testing, commissioning, fixing accessories and incidental works necessary for completion.

Sr. No.	Description of Item	Unit	Qty.	Rate (₹)	Amount (₹)
1	Repair/upgradation of main electrical distribution system suitable for approximately 35 kW load including main switch/isolator, terminals, connections, protection, cable laying from meter to DB and allied works	L.S.	1		
2	Repair and maintenance of existing bus-bar arrangement including cleaning, tightening, replacement of defective hardware/insulators and allied works	L.S.	1		
3	Providing and laying new electrical power cables of approved make and suitable size including glands, lugs, ferrules, identification, termination, testing and commissioning (rate of each cable size shall be quoted per meter)	Mtr.	[●]		
4	Re-routing and reuse of existing serviceable cables including removal, testing, shifting, laying, termination and reconnection	Mtr.	[●]		
5	Providing and fixing heavy-duty overhead cable tray/support arrangement at approximately 10 ft height including MS/GI supports, brackets, clamps, fasteners, bends, couplers and all accessories complete	Mtr.	[●]		
6	Providing and fixing vertical cable drop/support arrangement at each identified machine location including vertical strip/duct, clamps, supports and accessories complete	No.	[●]		
7	Providing/fixing/repairing machine electrical switches/isolators including suitable rating, enclosure, wiring, termination, labels and accessories	No.	[●]		
8	Repair/replacement of existing workshop LED light switchboards including switches, plates, boxes, connectors and internal wiring	No.	[●]		
9	Providing and installing new LED light fixtures including mounting accessories, wiring, connectors, testing and commissioning	No.	[●]		

Sr. No.	Description of Item	Unit	Qty.	Rate (₹)	Amount (₹)
10	Providing and installing electrical fans including mounting, wiring, regulator/switch, earthing, testing and commissioning	No.	[●]		
11	Earthing/bonding of electrical panels, cable trays, machines and other required equipment including earth continuity arrangements	L.S.	1		
12	Dismantling/removal of defective electrical wiring, cables, switches and accessories and disposal of electrical debris	L.S.	1		
13	Complete testing, commissioning, identification labelling, cleaning and handing over of the electrical installation	L.S.	1		

TOTAL BASIC TENDER AMOUNT: ₹ _____

GST @ _____ %: ₹ _____

TOTAL INCLUDING GST: ₹ _____

Total Amount in Words: _____

Signature of Bidder with Seal: _____

Name: _____

Date: _____



PART VII — COMMERCIAL TERMS & PAYMENT

7.1 Completion Period

The complete electrical work shall be completed within **45 (Forty-Five) Calendar Days** from the date of issue of Work Order/Letter of Award.

The contractor shall submit a detailed work program immediately after award.

7.2 Payment Terms

Payment shall be made against satisfactory progress and certification as follows:

Stage	Payment
Advance before commencement of work	25%
After completion of cabling, tray, main distribution and major electrical works	50%
After complete testing, commissioning and final inspection	20%
After successful completion of 12-month Defect Liability Period	5%

Payment shall be subject to:

- Satisfactory inspection
- Certification by authorised representative of MAGIC
- Submission of proper invoice
- Applicable statutory deductions
- GST compliance

7.3 Retention / Security

The 5% amount shown as the final payment in Clause 7.2 shall be retained as security and released after successful completion of the Defect Liability Period, subject to satisfactory performance and settlement of contractual obligations. No separate retention shall be deducted in addition to this 5% amount.

7.4 Variation

MAGIC may increase or decrease quantities depending upon actual site requirements.

Payment shall be based on actual accepted quantity where the item is measured on a unit basis.

No additional claim shall be entertained for minor incidental works necessary for completing the defined scope.

Any substantial additional work shall require prior written approval from MAGIC.



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PART VIII — DEFECT LIABILITY & WARRANTY

8.1 Defect Liability Period

The Defect Liability Period shall be **12 months from the date of completion and handing over**.

During this period, the contractor shall rectify at its own cost any defect attributable to:

- Defective workmanship
- Improper cable termination
- Loose electrical connections
- Defective installation
- Improper earthing
- Defective switches
- Defective cable tray installation
- Failure of workmanship
- Improper installation of LED lights/fans
- Other defects attributable to the contractor

8.2 Response to Defects

For electrical safety-related defects, the contractor shall respond promptly upon receiving notice from MAGIC.

The contractor shall rectify the defect without additional cost where the defect is attributable to the contractor's workmanship or supplied material.



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PART IX — GENERAL CONDITIONS OF CONTRACT

9.1 Quality of Materials

All materials shall be new and approved and ISI marked wherever applicable.

MAGIC reserves the right to reject any material that does not meet the specified quality.

9.2 Approved Makes

The bidder shall mention the proposed make/brand for:

- Cables
- Switches
- MCCB/MCB
- Isolators
- Bus-bar components
- Cable trays
- LED lights
- Fans
- Switchboards
- Wires
- Electrical accessories

Final makes shall be subject to approval by MAGIC.

9.3 Workmanship

All work shall be carried out by skilled electrical workers under competent supervision.

Improper or unsafe workmanship shall be rectified at the contractor's own cost.

9.4 Protection of Existing Property

The contractor shall protect existing machinery, equipment, building components and other installations during execution.

Any damage caused due to contractor negligence shall be repaired/replaced at the contractor's cost.

9.5 Shutdown

Electrical shutdowns shall be planned in consultation with MAGIC.

The contractor shall not switch off or energise any electrical circuit without proper coordination with the authorised representative of MAGIC.

9.6 Housekeeping

The contractor shall maintain proper housekeeping during the work.

Removed cables, wires, electrical components and debris shall be cleared from the work area.

9.7 Safety

The contractor shall provide appropriate PPE, tools and safety equipment to its workers.

All applicable electrical safety requirements shall be followed.

9.8 Completion and Handover

On completion, the contractor shall:

1. Test the entire installation
2. Rectify defects
3. Label circuits
4. Clean panels and electrical equipment
5. Remove temporary wiring
6. Remove debris
7. Submit testing reports
8. Submit details of installed materials
9. Demonstrate operation of the installation
10. Hand over the complete electrical system to MAGIC



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PART X — FORMS & DECLARATIONS

10.1 Bidder's Declaration

I/We hereby declare that:

1. We have inspected the site and existing electrical installation.
2. We have understood the complete scope of work.
3. We have considered the existing condition of cables and electrical equipment.
4. We shall reuse serviceable existing cables wherever technically feasible.
5. We shall replace unsafe or defective cables wherever required.
6. We shall execute the work considering approximately 35 kW electrical load.
7. We shall comply with applicable electrical safety requirements.
8. We shall complete the work within 45 calendar days.
9. We accept all terms and conditions of the tender.
10. The information submitted by us is true and correct.

Name of Firm: _____

Authorised Signatory: _____

Signature: _____

Date: _____



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ANNEXURE I — SITE INSPECTION CERTIFICATE

I/We hereby certify that we have inspected the Workshop at MAGIC Incubation Centre, Government ITI, Jalna, and have examined the existing electrical installation, cables, main switches, bus-bars, machine connections, lighting, fans, switchboards, cable routes and other relevant site conditions.

We confirm that we have considered all site conditions while preparing our quotation.

Name of Bidder: _____

Firm: _____

Authorised Signatory: _____

Signature & Seal: _____

Date: _____



ANNEXURE II — EXISTING ELECTRICAL INSTALLATION DETAILS

The bidder shall inspect and record, wherever applicable:

Sr. No.	Description	Existing Condition	Proposed Action
1	Main Incoming Supply		
2	Main Switch		
3	Distribution Panel		
4	Bus-Bar		
5	Existing Power Cables		
6	Serviceable Cables for Reuse		
7	Damaged Cables		
8	Machine Connections		
9	Cable Tray/Supports		
10	LED Light Points		
11	Fan Points		
12	Switchboards		
13	Earthing		
14	Other Electrical Equipment		



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ANNEXURE III — TECHNICAL COMPLIANCE STATEMENT

Sr. No.	Requirement	Complied — Yes/No	Remarks
1	35 kW electrical load consideration		
2	Existing cable testing and reuse		
3	New cable installation		
4	Main switch repair/replacement		
5	Bus-bar repair		
6	Overhead cable tray at approx. 10 ft height		
7	Vertical cable drops at machine locations		
8	Machine switches/isolators		
9	LED lights		
10	Fans		
11	Switchboard repair/replacement		
12	Earthing		
13	Cable testing		
14	Final commissioning		
15	12-month Defect Liability		



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ANNEXURE IV — ELECTRICAL SAFETY & TESTING CERTIFICATE

I/We hereby certify that the electrical installation executed under this contract has been tested and found satisfactory with respect to:

- Cable continuity
- Insulation resistance
- Polarity
- Phase sequence
- Earth continuity
- Earthing
- Main switch operation
- Protective devices
- LED lights
- Fans
- Machine connection points
- Cable tray bonding/earthing, wherever applicable
- General electrical safety

The installation has been handed over in safe working condition.

Contractor: _____

Electrical Supervisor/Competent Person: _____

Licence/Registration No.: _____

Signature: _____

Date: _____

MAGIC Representative: _____

Signature: _____



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IMPORTANT NOTE TO BIDDER

The bidder shall carefully inspect the existing electrical installation before quoting.

The quantities indicated in the BOQ are subject to actual site verification. The contractor shall take actual measurements before execution.

The primary objective of this tender is to safely restore, repair, reorganise and upgrade the Workshop electrical installation, while maximising the technically safe reuse of existing serviceable cables and electrical components and providing a safe, accessible and maintainable cable distribution system for the Workshop.



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